DYNAPAC STATIC ROLLER

Dynapac CS1400

Atlas Copco

THE DYNAPAC CS1400 STATIC ROLLER is a modern, articulated three-drum roller with the same static linear load and drum diameter on all drums. The roller covers the asphalt mat with its full width. The CS1400 roller is used primarily to compact asphalt when the course has a typical thickness of up to 50 mm, depending on the stiffness of the asphalt compound and the prevailing weather conditions.

The machine is suitable for medium-size and large-size applications. It is ideal for use in areas where the ground should not be vibrated, such as in areas close to old buildings and on bridges.

STATIC COMPACTION AT ITS BEST

SERVICE-FRIENDLY LOW EMISSION ENGINE

The Dynapac CS1400 has ample power resources and fulfils the latest Stage IIIB/T4final emission regulations. The engine is easily accessed, as it is placed between the front drums under a large engine hood. All service points are located within easy reach from the ground.

CENTRAL HYDRAULIC TEST PANEL

The Dynapac CS1400 has a central test panel for the hydraulic system, which makes inspection and trouble-shooting swift and simple. The panel – with quick couplings – is easily accessed from the ground, and is well protected inside the articulated hitch.

OPERATOR'S ENVIRONMENT

The operator has a perfect view of the work in progress. The drum positions and the elevated rubber mounted operator's platform with two separate operator stations provide excellent visibility of the drum edges. Instruments and controls are located exactly where they should be, within easy reach of the operator.

BRAKE SYSTEM

The Dynapac CS1400 features the same reliable safety brakes as other Dynapac rollers. The brakes are automatically engaged on all three drums in the event of engine malfunction or hydraulic failure. In addition, the reserve/parking brake button on the instrument panel is easily accessible from both operator stations.

ALL EQUAL LOAD

The equal static linear load on the three drums and the centre point articulation makes it possible to calculate with the full 2100 mm compaction width all the time. This gives up to 50% more capacity compared with old pivot steered concepts. The 50% higher capacity means 50% lower fuel consumption and 50% less working time needed.

SPRINKLER SYSTEM

The sprinkler system is pressurised, with two separate pumps, back-up function, and filtering of the water. The high-resistant plastic water tanks have large filling openings for quick and easy filling from ground level.

The entire sprinkler system is made of non-corrosive material to ensure high reliability and to prevent adhesion. A sprinkler timer is available as an option.

ROPS/Cab with large windows provides a good view over the working area.

Easy access to all daily maintenance points. A central hydraulic test panel is available as standard.

Driven rear drum with same large diameter as the front drums. Equal static linear load over the whole machine width.

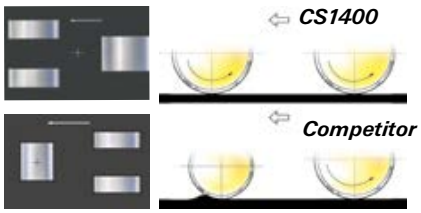
Two driven front drums with large diameter provides best traction and eliminates shoving of material.

Articulated centre pivot steering ensures proper drum overlapping even when turning or changing lanes.

ROPS/CAB AVAILABLE AS OPTION

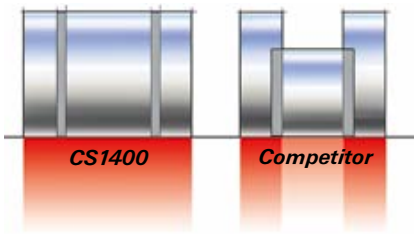
The roller operator has got a direct impact on the compaction efficiency and the cost for compaction. An enclosed, ergonomically designed and comfortable safety cab is available as an option to improve the operator's environment. Large windows, even lower noise level, heater, high-positioned working lights and air filters are among the features that make the cab a good investment. Air condition (AC), radio/CD player, asphalt temperature meter are available as further enhancements that will keep the operator fit and alert. Still, with this enhancement the total machine height remains below 3 metres.

TECHNICAL DATA	CS1400 w Cab & ROPS	CS1400 w ROPS
Operating mass	11 000 kg	10 800 kg
Module mass, front/rear	5 800/5 200 kg	5 700/5 100 kg
Max. operating mass (Ballasted)	13 200 kg	13 000 kg
Module mass, front/rear (Ballasted)	6 900/6 300 kg	6 800/6 200 kg
Static linear load std/max	Front: 51/60 kg/cm Rear: 49/59 kg/cm	Front: 50/59 kg/cm Rear: 48/58 kg/cm
Speed	0-15 km/h	0-15 km/h
Propulsion	Three Drums	Three Drums
Water tank	530 litre	530 litre
Compaction width	2100 mm	2100 mm
Drum diameter	1500 mm	1500 mm
Length	4780 mm	4780 mm
Width	2100 mm	2100 mm
Height, with cab	2990 mm	2500 mm
Height with ROPS		3400 mm
Engine		
Mode	Deutz TD 3.6 IIIB/T4final	Deutz TD 3.6 IIIB/T4final
Rated power, SAE J1995, at 1800 rpm, kW (hp)	55 (74)	55 (74)



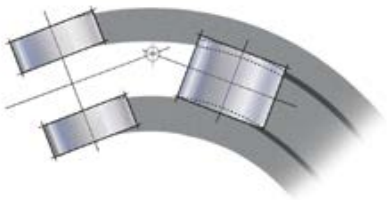
All-wheel drive

Propulsion on all three drums provides excellent gradeability and eliminates shoving of the material. The large drum diameters and smooth drum edges enhance rolling performance and compaction effect. Large diameter also virtually eliminates the bow wave problem and risk of surface cracks.



Equal static linear load on all drums

In static compaction, balance is a crucial matter. The Dynapac CS1400 presents perfect weight balance and matching drum width front and rear. The result is equal static linear load on all three drums. Large and equal drum diameter front and rear ensures uniform compaction effort across the entire machine width.



Centre-point articulation

The Dynapac CS1400 features small inside/ outside turning radius, and vertical oscillating articulation. Articulated centre-pivot steering gives proper drum overlap and equal force over the entire rolling width, also when turning or changing lanes.

STANDARD EQUIPMENT

Backup alarm
Brake release
Central test panel for hydraulic pressure
Cover, instrument panel (ROPS only)
Emergency stop
Engine water temp and level warning light
Fuel gauge
Horn
Hour meter
Hydraulic fluid temperature gauge
Lifting and tiedown eyes
Main battery switch
Neutral start arrangement
Pressurized sprinkler system
ROPS (incl. seat belt) *
Rotating beacon
Scrapers, spring-loaded vulcolane
Seat belts, 3”
Seats. dual. Sideways and f&r slideable
Sprinkler backup system
Sprinkler timer
Warning lights for air cleaner, brake, hydraulic fluid filter, engine oil pressure and engine oil temperature
Working lights

OPTIONAL EQUIPMENT

Asphalt Temperature Meter for cab
Biologically degradable hydraulic oil
Cab (incl. heater)
Comfort cab (incl. heater, AC, radio and CD player)
Driving lights
First aid kit for cab
Slow Moving Vehicle sign (SMV)

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time.
This is what we call - Sustainable Productivity.

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